

Marion S. Helfand, M.D., Ph.D.

EDUCATION

Case Western Reserve University, Cleveland, OH (Chemistry)	B. S.	1983
University of California at Berkeley, Berkeley, CA (Chemistry)	Ph.D.	1989
Case Western Reserve University School of Medicine, Cleveland, OH	M. D.	1996
Case Western Reserve University School of Medicine, Cleveland, OH (Internal Med)	Resident	1999
Case Western Reserve University School of Medicine, Cleveland, OH (Infec Dis)	Fellow	2002

MAJOR RESEARCH INTEREST(S)

Antimicrobial resistance, especially the structure: function relationships between beta-lactamase enzymes and their substrates and inhibitors.

RESEARCH AND/OR PROFESSIONAL EXPERIENCE

1984-1989	Research Assistant: Department of Chemistry, University of California, Berkeley, and the Lawrence Berkeley National Laboratory
1983-1984	Teaching Assistant: Department of Chemistry, University of California, Berkeley, CA
1982-1983	Technician: Department of Biochemistry, Case Western Reserve University, Cleveland, OH

HONORS AND AWARDS

1979	Ohio Regents Scholar, Case Western Reserve University
1983	Graduated with Honors in Chemistry, Case Western Reserve University
2001	MetroHealth Medical Center Scientific Competition for Fellows and Residents First Place Award, Case Western Reserve University